

Anti-PCNA Rabbit Monoclonal Antibody

Catalog Number: M00125-1

About PCNA

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-PCNA Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PCNA Rabbit Monoclonal Antibody catalog # M00125-1. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal DO-16
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P12004

Technical Details

Immunogen	A synthesized peptide derived from human PCNA
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

WB 1:3000-1:10000

IHC 1:50-1:200

ICC/IF 1:100-1:500

IP 1:50-1:100

FC 1:200-1:500

Anti-PCNA Rabbit Monoclonal Antibody (M00125-1) Images

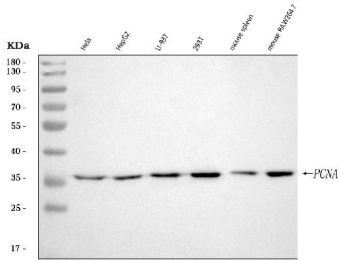
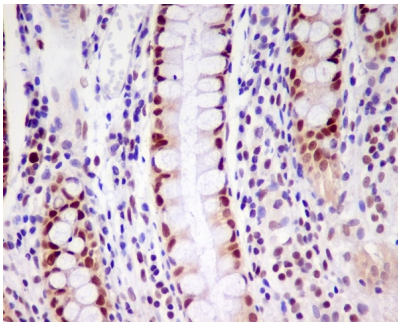


Figure 1. Western blot analysis of PCNA using anti-PCNA antibody (M00125-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,
Lane 2: human HepG2 whole cell lysates,
Lane 3: human U-937 whole cell lysates,
Lane 4: human 293T whole cell lysates,
Lane 5: mouse spleen tissue lysates,
Lane 6: rat RAW264.7 tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PCNA antigen affinity purified monoclonal antibody (Catalog # M00125-1) at 1:3000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PCNA at approximately 36 kDa. The expected band size for PCNA is at 29 kDa.



Immunohistochemical analysis of paraffin-embedded human colon, using PCNA Antibody.

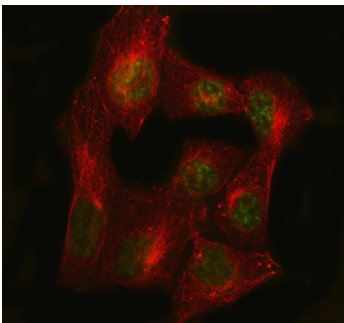
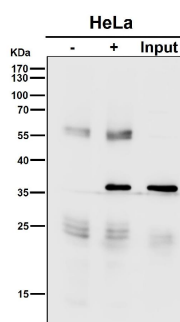


Figure 3. IF analysis of PCNA using anti-PCNA antibody (M00125-1) and anti-Beta Tubulin antibody (M01857-3). PCNA was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated at 1:100 with rabbit anti-PCNA Antibody (M00125-1) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) and DyLight550-conjugated Anti-mouse IgG Secondary antibody (red)(Catalog#BA1133) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Immunoprecipitate (IP) analysis using the Antibody at 1:50 dilution. (wb at 1:3K dilution)

63 Publications Citing This Product

1. PubMed ID: 31562866, Ma Q,Gu JT,Wang B,Feng J,Yang L,Kang XW,Duan P,Sun X,Liu PJ,Wang JC.PIGF signaling and macrophage repolarization contribute to the anti-neoplastic effect of metformin.Eur J Pharmacol.2019 Nov 15;863:172696.doi:10.1016/j.ejphar.2019.172696.Epub 2019 Sep 25.PMID:31562866.
2. PubMed ID: 33593403, Yi M,Zhang J,Li A,Niu M,Yan Y,Jiao Y,Luo S,Zhou P,Wu K.The construction, expression, and enhanced anti-tumor activity of YM101: a bispecific antibody simultaneously targeting TGF-beta and PD-L1.J Hematol Oncol.2021 Feb 16;14(1):27.doi:10.1186/s13045-021-0104
3. PubMed ID: 33492563, Zhang F,Zhang L,He L,Cao M,Yang Y,Duan X,Shi J,Liu K.A PITX2 splice-site mutation in a family with Axenfeld-Rieger syndrome leads to decreased expression of nuclear PITX2 protein.Int Ophthalmol.2021 Jan 25.doi:10.1007/s10792-021-01704-5.Epub ahead of prin

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